

SYSTEMS AND METHODS FOR DETERMINING BLOOD OXYGEN SATURATION VALUES USING COMPLEX NUMBER ENCODING

ABSTRACT OF THE DISCLOSURE

The disclosure includes pulse oximetry systems and methods for determining point-by-point saturation values by encoding photoplethysmographs in the complex domain and processing the complex signals. The systems filter motion artifacts and other noise using a variety of techniques, including statistical analysis such as correlation, or phase filtering.

PATENT

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